

FIG. 8

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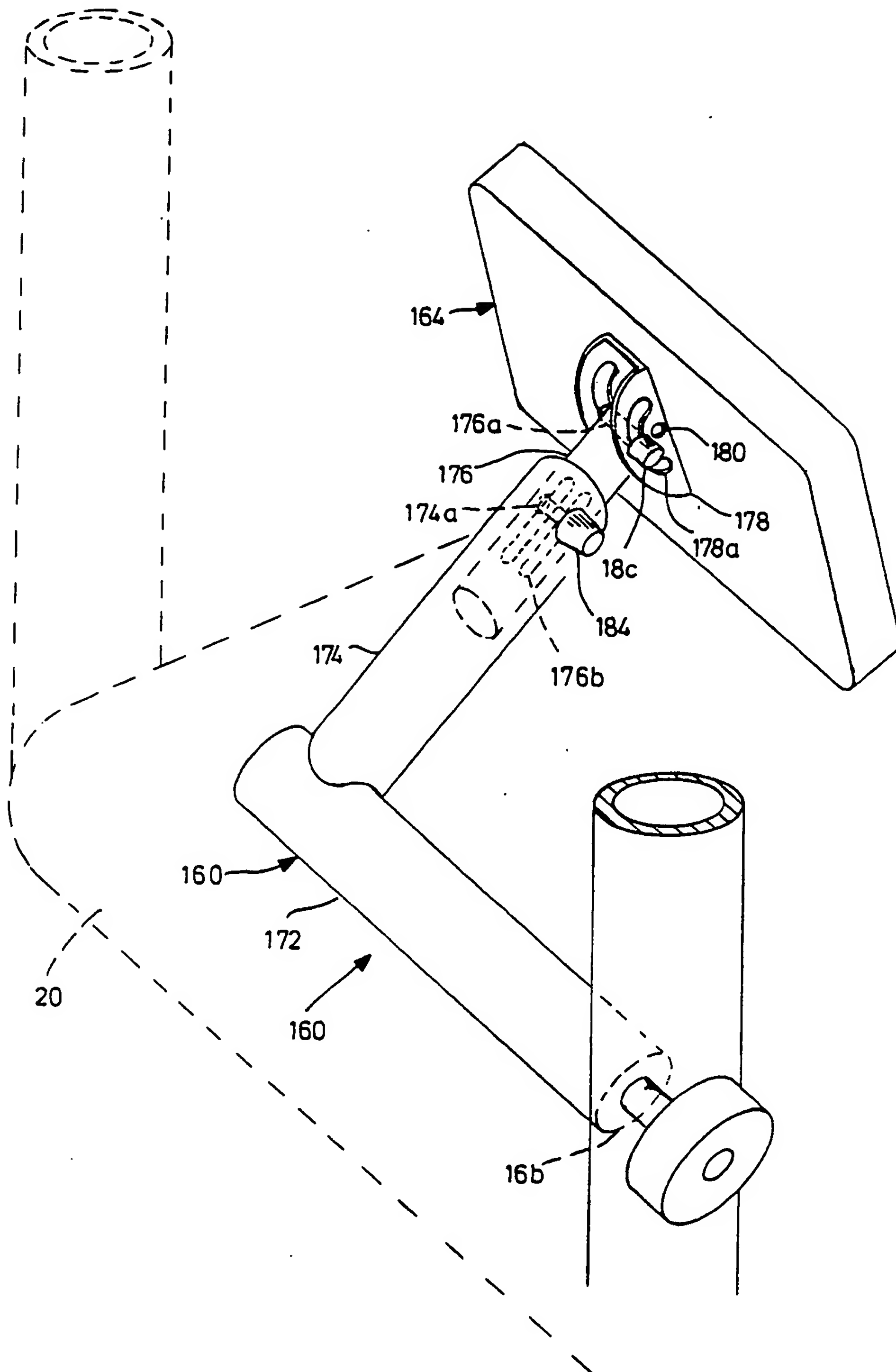


FIG. 7

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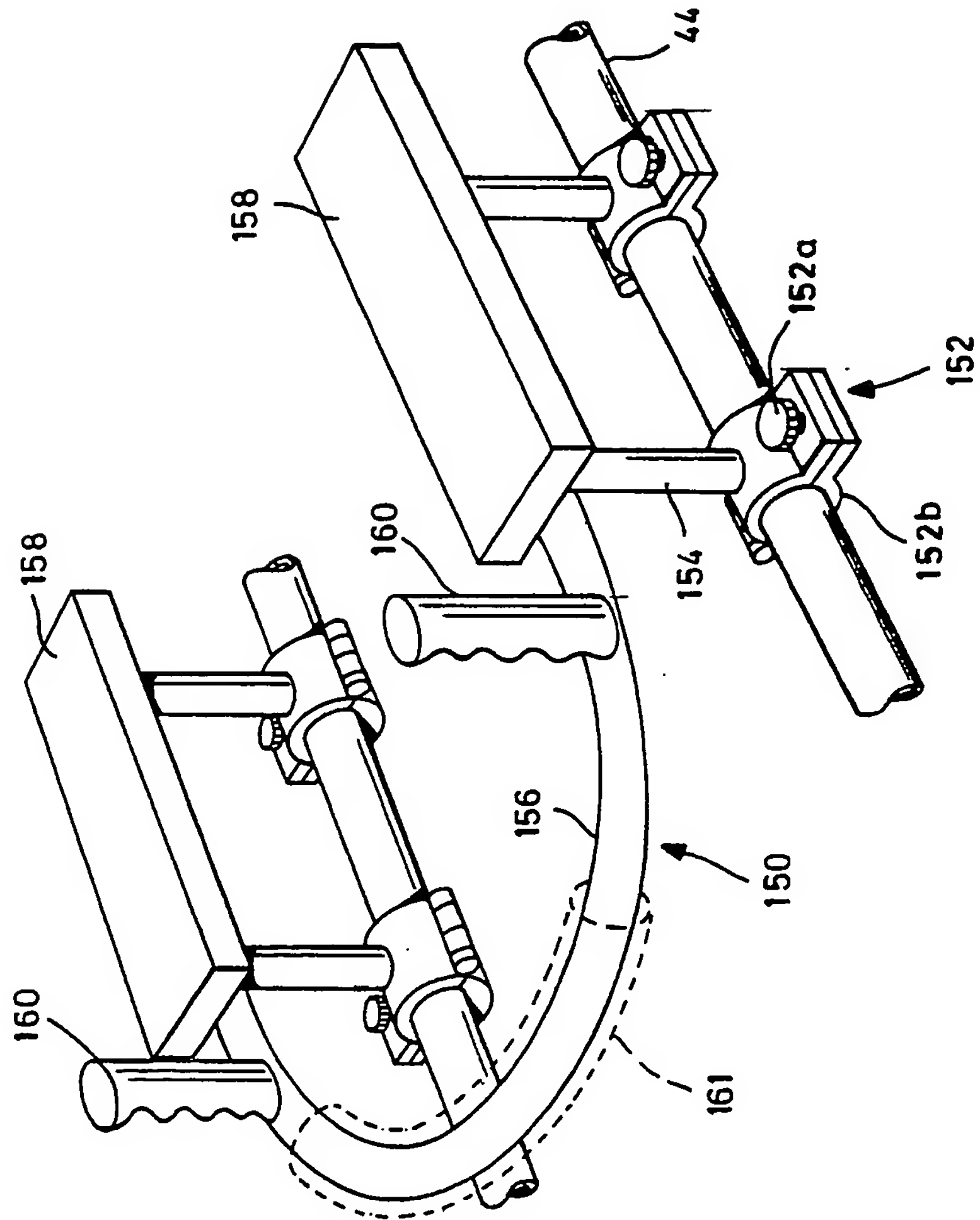


FIG. 6

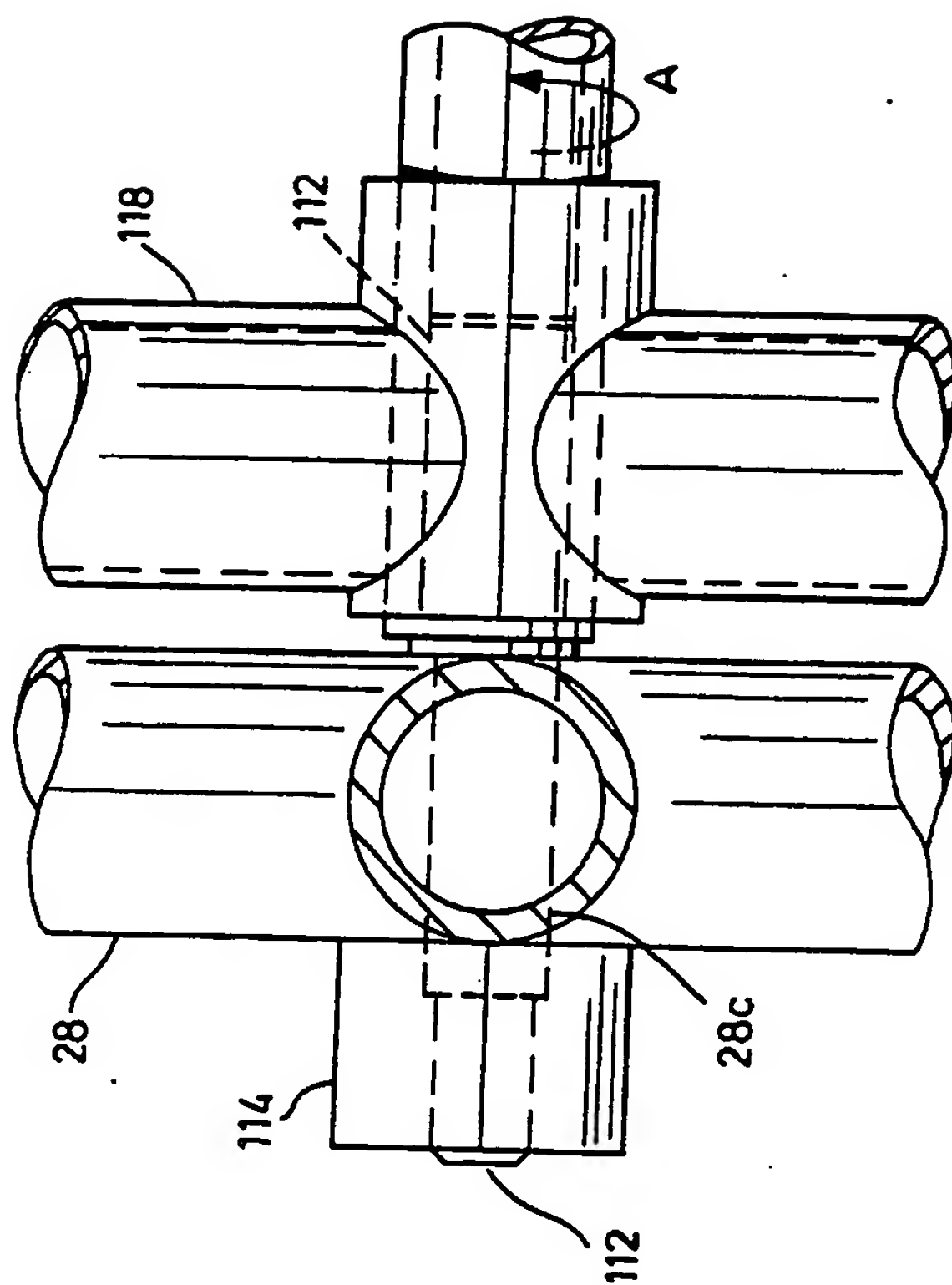
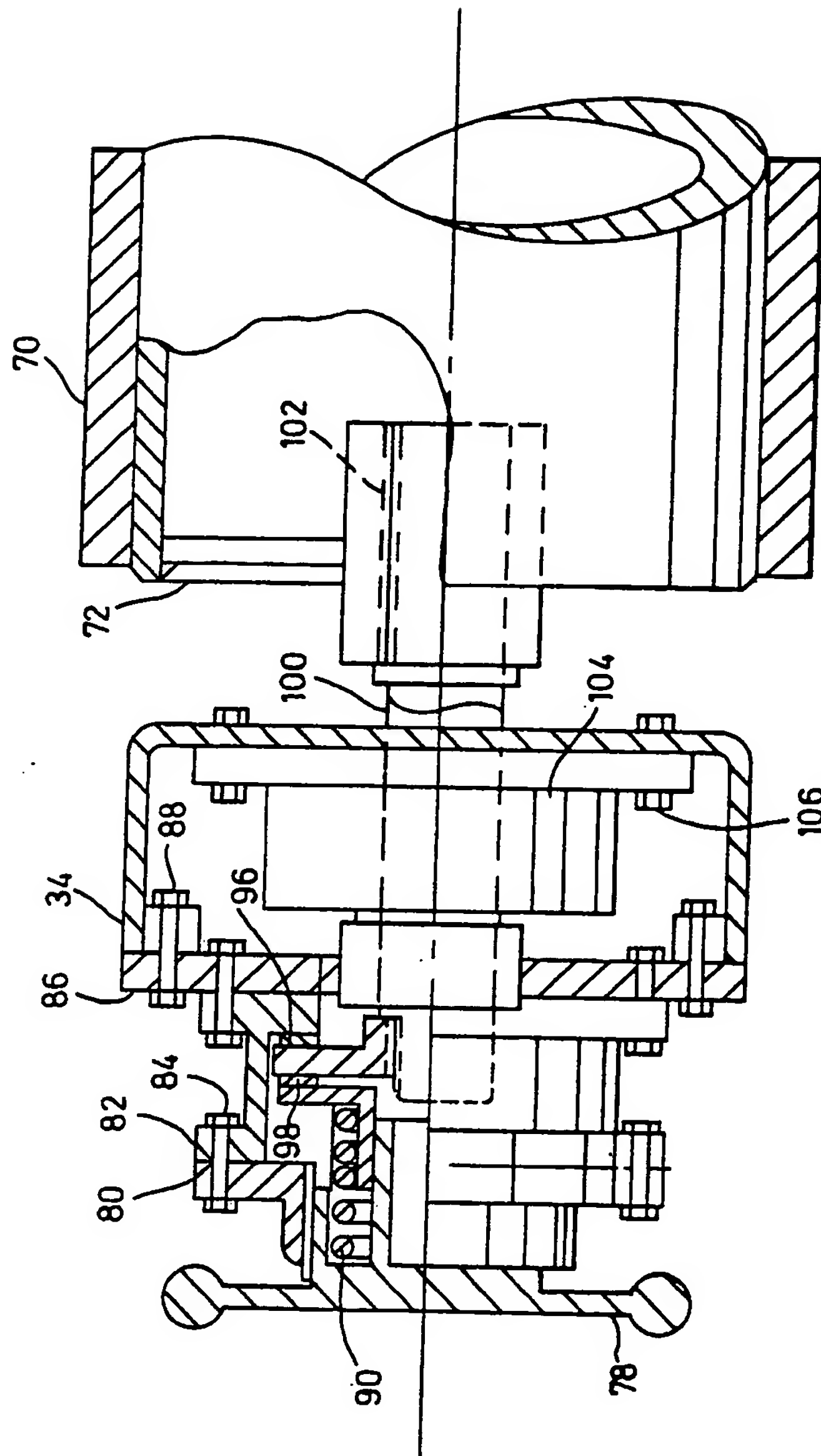


FIG. 5

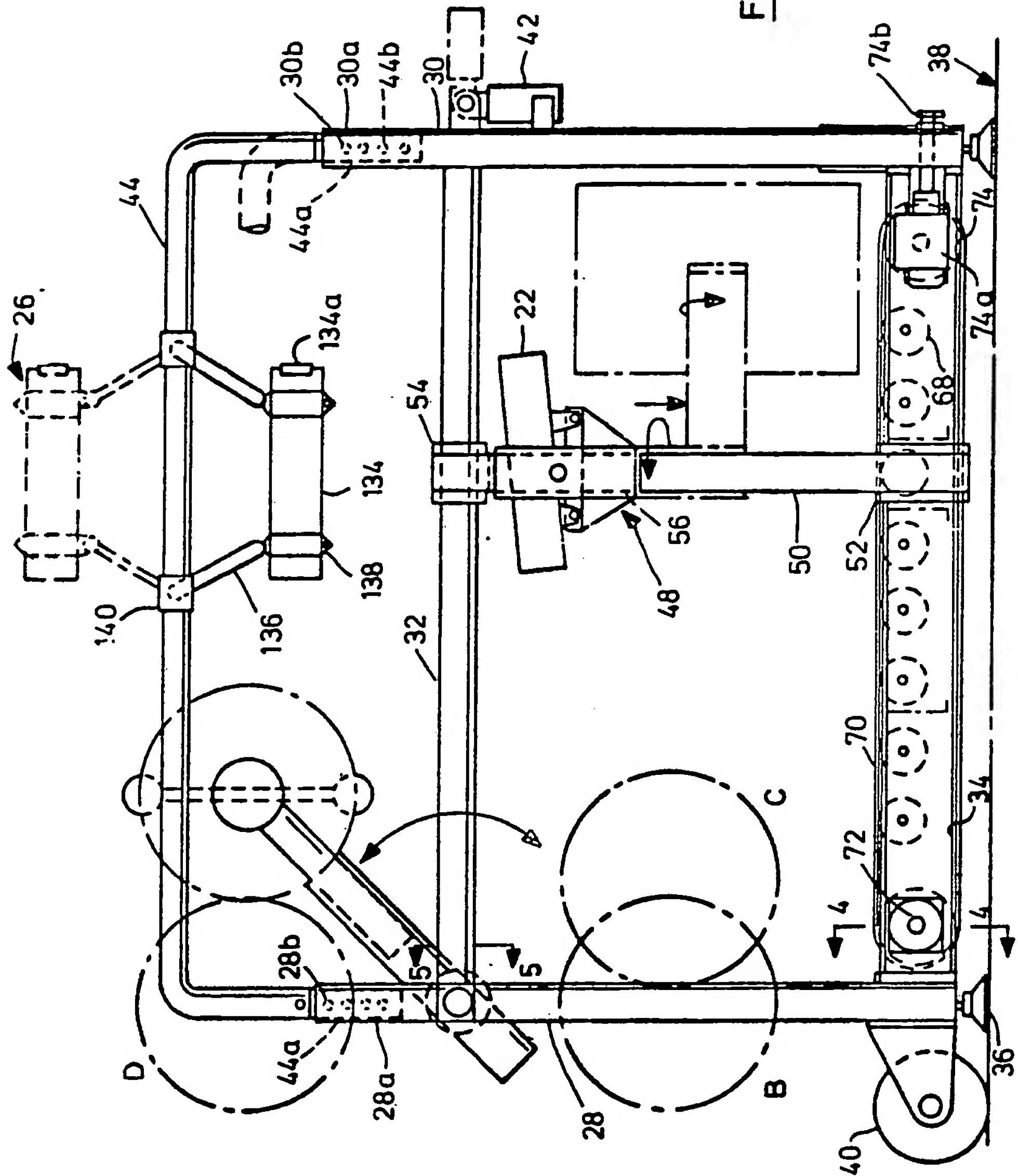
SUBSTITUTE SHEET



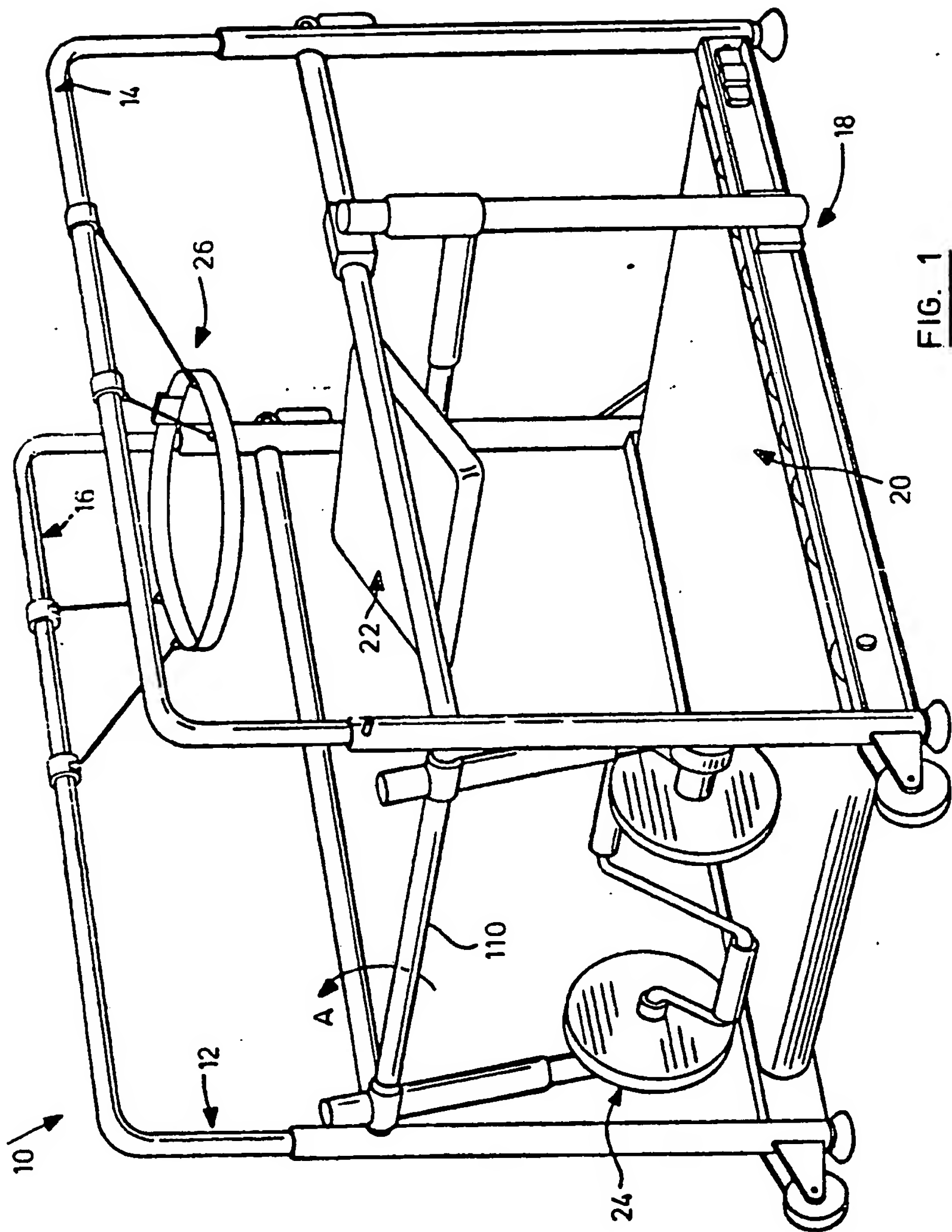
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FIG. 2



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# INTERNATIONAL SEARCH REPORT

International Application No **PCT/US87/01734**

<b>I. CLASSIFICATION OF SUBJECT MATTER</b> (If several classification symbols apply, indicate all) <sup>3</sup>		
According to International Patent Classification (IPC) or to both National Classification and IPC <b>IPC(4): A63B 23/06</b> <b>U.S. Cl: 272/69</b>		
<b>II. FIELDS SEARCHED</b>		
Minimum Documentation Searched <sup>4</sup>		
Classification System	Classification Symbols	
<b>U.S.</b>	<b>272/69, 70, 73</b> <b>128/25R</b>	
Documentation Searched other than Minimum Documentation to the extent that such Documents are included in the Fields Searched <sup>5</sup>		
<b>III. DOCUMENTS CONSIDERED TO BE RELEVANT</b> <sup>14</sup>		
Category <sup>6</sup>	Citation of Document, <sup>10</sup> with indication, where appropriate, of the relevant passages <sup>17</sup>	Relevant to Claim No. <sup>18</sup>
A	<b>US,A, 4,026,545 (SCHONENBERGER) 31 MAY 1977</b> <b>See col. 1, lines 59-62; col. 2,</b> <b>lines 55-63</b>	
A	<b>US,A, 4,204,673 (SPEER, SR.) 27 MAY 1980</b> <b>See col. 2, lines 40-44, 55-68;</b> <b>col. 3, lines 1-8</b>	
A	<b>US,A, 2,399,915 (DRAKE) 07 MAY 1946</b> <b>See col. 3, lines 40-53;</b> <b>col. 4, lines 19-28; col. 5,</b> <b>lines 48-55</b>	1,15-19
A	<b>US,A, 3,870,297 (ELDER) 11 MARCH 1975</b> <b>See col. 5, lines 8-65</b>	
Y	<b>CAN,A, 672583 (PRIMEAU) 22 OCTOBER 1963</b> <b>See page 5, lines 22-28, page 6,</b> <b>lines 1-6</b>	1,7,15,16,19
Y	<b>US,A, 2,826,192 (MANGAS) 11 MARCH 1958</b> <b>See col. 2, lines 50-53,</b> <b>lines 58-66</b>	1,18,19
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><sup>15</sup> Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the International filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the International filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"&amp;" document member of the same patent family</p> </div> </div>		
<b>IV. CERTIFICATION</b>		
Date of the Actual Completion of the International Search <sup>1</sup> <b>01 OCTOBER 1987</b>		Date of Mailing of this International Search Report <sup>2</sup> <b>20 OCT 1987</b>
International Searching Authority <sup>1</sup> <b>ISA/US</b>		Signature of Authorized Officer <sup>20</sup> <b>S.R. Crow</b> <i>ARCrow</i>